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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/781,168	02/18/2004	Danning Yang	HT03-017	1799	
7590 03/17/2006		EXAMINER			
STEPHEN B. ACKERMAN			TUGBANG, ANTHONY D		
28 DAVIS AVENUE POUGHKEEPSIE, NY 12603			ART UNIT	PAPER NUMBER	
			3729	3729	
		D. 1777 14 14 17 17 00 (17 1900)			

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)					
		10/781,168	YANG ET AL					
	Office Action Summary	Examiner	Art Unit					
		A. Dexter Tugba	ng 3729					
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAI nasions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community period for reply is specified above, the maximum statuting to reply within the set or extended period for reply will reply received by the Office later than three months after ed patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS CO 37 CFR 1.136(a). In no event, howe cation. ory period will apply and will expire I, by statute, cause the application to	DMMUNICATION. ever, may a reply be timely filed SIX (6) MONTHS from the mailing date of the observed become ABANDONED (35 U.S.C. § 13	f this communication.				
Status								
1)	Responsive to communication(s) filed	on						
,	•) This action is non-fin	al.					
/	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4) Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-28 are subject to restriction and/or election requirement.								
Applicati	on Papers							
9)[The specification is objected to by the E	Examiner.						
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection		-	• •				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTC		Interview Summary (PTO-413) Paper No(s)/Mail Date					
3) 🔲 Infor	nation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date	O/SB/08) 5)	Notice of Informal Patent Application Other:	n (PTO-152)				

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-4, drawn to a process of making a hard mask, classified in class 29, subclass 846.
 - II. Claims 5-11, drawn to a process of making a pedestal, classified in class 216, subclass 38.
 - III. Claims 12-22, drawn to a process of making a magnetic head, classified in class29, subclass 603.07.
 - IV. Claims 23-28, drawn to a product of a magnetic read head, classified in class 360, subclass 126.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions of Groups I, II, III and Group IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the product of Group IV can be made by a materially different process, such as one that forms the micro-device on a substrate by various casting and annealing techniques.
- 3. Inventions of Group III and Groups I, II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the

instant case, the combination (Group III) as claimed does not require the particulars of the subcombination (Group I or Group II) as claimed because Group III does not require the particulars of 1) providing a substrate and forming thereon a photoresist mold, as required by Group I, or 2) surrounding a pedestal with an etch stop layer, as required by Group II. The subcombinations, each have separate utility, or a separately usable process, such as providing a substrate with a photoresist mold or surrounding a pedestal with an etch stop layer.

- 4. Inventions of Groups I and Group II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, the subcombination of Group II has separate utility such as a separately usable process of surrounding a narrow pedestal with an etch stop layer. See MPEP § 806.05(d).
- 5. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification and their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 6. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

- 7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Dexter Tugbang whose telephone number is 571-272-4570. The examiner can normally be reached on Monday Friday 8:30 am 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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A. Dexter Tugbang Primary Examiner Art Unit 3729

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